

## Eighth Grade Curriculum Map- Pineapple Cove Classical Academy

	August/ Sept	October	November	December	January	February	March	April	May
<b>Math: Geometry</b> <i>Weeks &amp; Adkins, A Course in Geometry: Plane and Solid, Euclid's Elements</i>	Points, Lines, Planes and Angles Postulates and Theorems Relating Points, Lines and Planes Deductive Reasoning If-Then Statements, Converses, Properties from Algebra, Proving Theorems	Special Pairs of Angles, Perpendicular Lines, Proofs Parallel Lines & Planes Parallel Lines, Properties of Parallel Lines, Proving Lines Parallel, Angles of a Triangle, Angles of a Polygon		Right Triangles & Trigonometry Similar Right Triangles, Pythagorean Theorem and its Converse, Special Right Triangles, Tangent Cosine, Sine, Applications of Right Triangle Trigonometry	Areas of Plane Figures Areas of Rectangles, Parallelograms, Triangles, Rhombuses, Trapezoids, Regular Polygons and Circles; Ratio of Areas, Geometric Probability,	Areas and Volumes of Solids Coordinate Geometry Distance Formula, Slope of a Line, Parallel and Perpendicular Lines, The Midpoint Formula, Graphing and Writing Linear Equations	Transformations Mappings, Reflections, Translations, Glide Reflections, Rotations, Dilations	Circles Tangents, Arcs, Central Angles, Chords, Inscribed Angles, Other Angles, Lengths of Segments, Arc Lengths, Areas of Sectors	Constructions Construction, Perpendiculars, Parallels, Concurrent Lines, Circles, Special Segments
<b>Math: Algebra 1</b> <i>Weeks and Adkins: A First Course in Algebra</i>	Variable Expressions; Equations & Functions	Equations & Formulas Real Numbers	Real Numbers Systems of Equations	Variations	Operations with Polynomials Factorization	Quadratic Equations	Quadratic Equations; Irrational Numbers	Right Triangles; Trig Functions	Nature of Proofs
<b>Science</b> <i>Core Knowledge Conceptual Physics: A High School Physics Program</i>	Review scientific method and metric system Motion - Speed, velocity, and acceleration - Newton's Laws of Motion Forces	Density and Buoyancy Work, Energy, and Power	Electricity - Electrical safety - Static electricity - Flowing electricity	Magnetism and Electricity - Earth's magnetism - Connection between electricity and magnetism		Electromagnetic Radiation and Light	Sound Waves: - General properties of waves - Frequency and amplitude Chemistry of Food and Respiration: - Food energy and the sun - Photosynthesis in plants - Respiration in animals - Human nutrition and respiration - Human health		
<b>Science Biographies</b>	Albert Einstein		Charles Steinmetz	James Maxwell			Dorothy Hodgkin		
<b>History</b> <i>Core Knowledge</i>	Civics: the Constitution- Principles and Structure of American Democracy	The Decline of European Colonialism; Breakup of the British Empire; Irish free state; Geography of South Asia; India; Creation of People's Republic of China Orwell- "Shooting an Elephant"	Origins of the Cold War; Korean War; America's involvement in the Cold War; IKE and JFK	Cont. Cold War; Civil Rights Movement; Segregation; Desegregation	Cont. Civil Rights Movement; LBJ and the Civil Rights Movement; Assassinations of MLK, RFK, JFK	The Vietnam War and the Rise of Social Activism; The Vietnam War; Social and Environmental Activism	The Middle East and Oil Politics; History; Geography of the Middle East	End of the Cold War; Expansion of Democracy and Continuing Challenges;	American policy of Détente; Breakup of the USSR; China under Communism; Contemporary Europe; The End of Apartheid in South Africa; Geography of Canada and Mexico
<b>Latin</b> <i>Latin Alive!</i>	Wheelock's Latin								
<b>Literature</b> <i>Core Knowledge Novels Core Poetry Biographies</i>	Novel: <i>To Kill a Mockingbird</i>	Short Stories: Chekhov--"The Bet" Tolstoy--"God Sees the Truth But Waits" Dostoyevsky--"An Honest Thief"	Novel: <i>The Lord of the Flies</i>	Short Stories: Hawthorne--"Dr. Heidegger's Experiment" Crane--"The Open Boat" One Day in the Life of Ivan Denisovich by Alexander Solzhenitsyn	One Day in the Life of Ivan Denisovich by Alexander Solzhenitsyn Play: <i>Henry V</i>	<i>A Bridge of San Luis Rey</i> by Thornton Wilder	Essays and Speeches: JFK--"Ask not what your country can do for you" E.B. White--"Death of a Pig" Carson--"The Marginal World" MLK Jr.--"I have a dream"; "Letter from Birmingham Jail" Novel: <i>The Red Badge of Courage</i>	Novel: <i>The Red Badge of Courage</i> Play: <i>Romeo and Juliet</i>	Play: <i>Romeo and Juliet</i>
<b>Sayings/Phrases</b>	au revoir, avant-garde, bete noire, c'est la vie	carte blanche, cause celebre, coup de grace, coup d'etat	déjà vu, enfant terrible, fait accompli, faux pas	Madame, Mademoiselle, Monsieur, merci, piece de resistance	raison d'etre, savoirfaire, tete-a- tete	Cumulative Review	Cumulative Review	Cumulative Review	Cumulative Review
<b>Writing &amp; Grammar</b> <i>Stay Smart by Elizabeth O'Brien</i>	Grammar Launch Note Taking and Outlines	Summary & Analysis of Fiction	Creative Short Story Writing	Summary & Analysis of Fiction	Summary & Analysis of Drama	Summary & Analysis of Drama	Summary & Analysis of Nonfiction	Summary & Analysis of Nonfiction	Summary & Analysis of Nonfiction